

WOODLAND MANAGEMENT AND PRODUCTIVITY
Kantishna Area, Alaska: Detailed Soil Map Legend

(Only the soils suitable for production of commercial trees are listed)

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
									m3/ha	
1: Beales-----	2S	Moderate	Moderate	Moderate	Severe	Moderate	paper birch----- quaking aspen----- white spruce-----	42 42 70	1 2 2	white spruce
Poorly drained permafrost soils-----	---	---	---	---	---	---	-----	---	---	---
Soils on slopes greater than 35 percent-----	---	---	---	---	---	---	-----	---	---	---
2: Beales-----	2R	Severe	Severe	Severe	Severe	Moderate	paper birch----- quaking aspen----- white spruce-----	42 42 70	1 2 2	white spruce
Soils on slopes less than 35 percent-----	---	---	---	---	---	---	-----	---	---	---
Soils with thicker than 10 inch loess mantles-----	---	---	---	---	---	---	-----	---	---	---
3: Beales-----	2S	Moderate	Moderate	Moderate	Severe	Moderate	paper birch----- quaking aspen----- white spruce-----	42 42 70	1 2 2	white spruce
Zitziana-----	---	Moderate	Moderate	Slight	Moderate	Moderate	-----	---	---	---
Poorly drained permafrost soils-----	---	---	---	---	---	---	-----	---	---	---

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									m3/ha	
Soils on slopes greater than 35 percent-----	---	---	---	---	---	---	-----	---	---	---
4: Typic Histoturbels---	---	Slight	Severe	Severe	Severe	Severe	-----	---	---	---
Terric Hemistels	---	---	---	---	---	---	-----	---	---	---
Bradway-----	---	---	---	---	---	---	-----	---	---	---
Soils that are frequently flooded-----	---	---	---	---	---	---	-----	---	---	---
Ponds and sloughs-----	---	---	---	---	---	---	-----	---	---	---
5: Iksgiza-----	1W	Severe	Severe	Severe	Moderate	Moderate	black spruce-----	---	---	---
Histosols-----	---	---	---	---	---	---	-----	---	---	---
Soils that are well drained---	---	---	---	---	---	---	-----	---	---	---
6: Iksgiza-----	1W	Severe	Severe	Severe	Moderate	Moderate	black spruce-----	---	---	---
Histosols-----	---	---	---	---	---	---	-----	---	---	---
Soils that are well drained---	---	---	---	---	---	---	-----	---	---	---

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		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
									m3/ha	
7:										
Iksgiza-----	---	---	---	---	---	---	-----	---	---	---
Soils on slopes less than 6 percent-----	---	---	---	---	---	---	-----	---	---	---
Soils that are well drained---	---	---	---	---	---	---	-----	---	---	---
8:										
Iksgiza-----	---	Slight	Severe	Severe	Severe	Severe	-----	---	---	---
Beales-----	2S	Moderate	Moderate	Moderate	Severe	Moderate	paper birch----- quaking aspen----- white spruce-----	42 42 70	1 2 2	white spruce
Zitziana-----	---	Moderate	Moderate	Slight	Moderate	Moderate	-----	---	---	---
Ponds and lakes-	---	---	---	---	---	---	-----	---	---	---
Poorly drained permafrost soils-----	---	---	---	---	---	---	-----	---	---	---
Soils that are well drained---	---	---	---	---	---	---	-----	---	---	---
9:										
Iksgiza-----	---	---	---	---	---	---	-----	---	---	---
Nenana-----	2R	Moderate	Moderate	Slight	Moderate	Moderate	paper birch----- quaking aspen----- white spruce-----	50 57 83	2 4 2	white spruce
Histosols-----	---	---	---	---	---	---	-----	---	---	---

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Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
Small ponds-----	---	---	---	---	---	---	-----	---	m3/ha ---	---
Soils that are moderately well drained-----	---	---	---	---	---	---	-----	---	---	---
10: Iksgiza-----	1W	Severe	Severe	Severe	Moderate	Moderate	black spruce-----	---	---	---
Terric Hemistels	---	---	---	---	---	---	-----	---	---	---
Soils that are ponded-----	---	---	---	---	---	---	-----	---	---	---
Soils that are well drained---	---	---	---	---	---	---	-----	---	---	---
11: Iksgiza-----	1W	Severe	Severe	Severe	Moderate	Moderate	black spruce-----	---	---	---
Zitziana-----	---	Moderate	Moderate	Slight	Moderate	Moderate	-----	---	---	---
Nenana-----	2R	Moderate	Moderate	Slight	Moderate	Moderate	paper birch----- quaking aspen----- white spruce-----	50 57 83	2 4 2	white spruce
Poorly drained permafrost soils-----	---	---	---	---	---	---	-----	---	---	---
Soils on slopes greater than 35 percent-----	---	---	---	---	---	---	-----	---	---	---

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Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
									m3/ha	
12: Kindanina-----	---	Slight	Severe	Severe	Severe	Severe	-----	---	---	---
Typic Aquiturbels----	---	---	---	---	---	---	-----	---	---	---
Soils that are well drained---	---	---	---	---	---	---	-----	---	---	---
13: Kindanina-----	---	Slight	Severe	Severe	Severe	Severe	-----	---	---	---
Soils on slopes less than 6 percent-----	---	---	---	---	---	---	-----	---	---	---
Typic Aquiturbels----	---	---	---	---	---	---	-----	---	---	---
14: Kindanina-----	---	Moderate	Severe	Severe	Severe	Severe	-----	---	---	---
Soils on slopes greater than 20 percent-----	---	---	---	---	---	---	-----	---	---	---
Soils on slopes less than 12 percent-----	---	---	---	---	---	---	-----	---	---	---
Typic Aquiturbels----	---	---	---	---	---	---	-----	---	---	---

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Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
15:									m3/ha	
Kindanina-----	---	Slight	Severe	Severe	Severe	Severe	-----	---	---	---
Beales-----	2S	Moderate	Moderate	Moderate	Severe	Moderate	paper birch----- quaking aspen----- white spruce-----	42 42 70	1 2 2	white spruce
Zitziana-----	---	Moderate	Moderate	Slight	Moderate	Moderate	-----	---	---	---
Poorly drained permafrost soils-----	---	---	---	---	---	---	-----	---	---	---
Soils with organic mats thicker than 8 inches-----	---	---	---	---	---	---	-----	---	---	---
16:										
Koyukuk-----	2R	Moderate	Moderate	Slight	Slight	Moderate	paper birch----- quaking aspen----- white spruce-----	60 65 83	3 4 2	white spruce
Poorly drained permafrost soils-----	---	---	---	---	---	---	-----	---	---	---
Soils on slopes greater than 35 percent-----	---	---	---	---	---	---	-----	---	---	---
17:										
Koyukuk-----	2R	Moderate	Moderate	Slight	Slight	Moderate	paper birch----- quaking aspen----- white spruce-----	60 65 83	3 4 2	white spruce
Typic Aquiturbels----	---	Moderate	Severe	Moderate	Moderate	Moderate	-----	---	---	---

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Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
									m3/ha	
Iksgiza-----	---	---	---	---	---	---	-----	---	---	---
Nenana-----	---	---	---	---	---	---	-----	---	---	---
18: Koyukuk-----	2R	Moderate	Moderate	Slight	Slight	Moderate	paper birch----- quaking aspen----- white spruce-----	60 65 83	3 4 2	white spruce
Typic Aquiturbels----	---	Moderate	Severe	Moderate	Moderate	Moderate	-----	---	---	---
Histosols-----	---	---	---	---	---	---	-----	---	---	---
Ponds and lakes-	---	---	---	---	---	---	-----	---	---	---
Soils that are somewhat poorly drained-----	---	---	---	---	---	---	-----	---	---	---
19: Nenana-----	2A	Slight	Slight	Slight	Moderate	Moderate	paper birch----- quaking aspen----- white spruce-----	50 57 83	2 4 2	white spruce
Poorly drained permafrost soils-----	---	---	---	---	---	---	-----	---	---	---

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Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
20:									m3/ha	
Nenana-----	2A	Slight	Slight	Slight	Moderate	Moderate	paper birch----- quaking aspen----- white spruce-----	50 57 83	2 4 2	white spruce
Poorly drained permafrost soils-----	---	---	---	---	---	---	-----	---	---	---
Soils on slopes greater than 12 percent-----	---	---	---	---	---	---	-----	---	---	---
21:										
Nenana-----	2R	Moderate	Moderate	Slight	Moderate	Moderate	paper birch----- quaking aspen----- white spruce-----	50 57 83	2 4 2	white spruce
Soils on slopes less than 12 percent-----	---	---	---	---	---	---	-----	---	---	---
Soils that are poorly drained-----	---	---	---	---	---	---	-----	---	---	---
22:										
Nenana-----	2R	Moderate	Moderate	Slight	Moderate	Moderate	paper birch----- quaking aspen----- white spruce-----	50 57 83	2 4 2	white spruce
Zitziana-----	---	Moderate	Moderate	Slight	Moderate	Moderate	-----	---	---	---
Poorly drained permafrost soils-----	---	---	---	---	---	---	-----	---	---	---

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Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
Soils on slopes greater than 35 percent-----	---	---	---	---	---	---	-----	---	m3/ha ---	---
23: Terric Hemistels	---	---	---	---	---	---	-----	---	---	---
Well drained mineral soils--	---	---	---	---	---	---	-----	---	---	---
24: Riverwash-----	---	---	---	---	---	---	-----	---	---	---
Salchaket-----	---	---	---	---	---	---	-----	---	---	---
Water-----	---	---	---	---	---	---	-----	---	---	---
25: Salchaket-----	3A	Slight	Slight	Slight	Slight	Moderate	balsam poplar----- white spruce-----	--- 94	--- 3	white spruce
Bradway-----	---	---	---	---	---	---	-----	---	---	---
Histosols-----	---	---	---	---	---	---	-----	---	---	---
Ponds and sloughs-----	---	---	---	---	---	---	-----	---	---	---
Riverwash-----	---	---	---	---	---	---	-----	---	---	---
26: Saulich-----	---	---	---	---	---	---	-----	---	---	---
Soils that are poorly drained-	---	---	---	---	---	---	-----	---	---	---

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		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
Soils with less than 8 inch thick organic mats-----	---	---	---	---	---	---	-----	---	m3/ha ---	---
27: Saulich-----	---	---	---	---	---	---	-----	---	---	---
Soils on slopes less than 3 percent-----	---	---	---	---	---	---	-----	---	---	---
Soils with less than 8 inch thick organic mats-----	---	---	---	---	---	---	-----	---	---	---
28: Typic Cryaquepts	2D	Moderate	Moderate	Moderate	Moderate	Moderate	black spruce-----	---	---	---
Histosols-----	---	---	---	---	---	---	-----	---	---	---
Small ponds and lakes-----	---	---	---	---	---	---	-----	---	---	---
Soils that are well drained---	---	---	---	---	---	---	-----	---	---	---
29: Typic Dystrocryepts--	---	Severe	Severe	Slight	Moderate	Moderate	-----	---	---	---
Lithic Dystrocryepts--	---	Severe	Severe	Moderate	Moderate	Moderate	-----	---	---	---
Soils with permafrost-----	---	---	---	---	---	---	-----	---	---	---

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		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
									m3/ha	
30: Typic Dystrocryepts--	---	Slight	Slight	Slight	Moderate	Moderate	-----	---	---	---
Saulich-----	---	---	---	---	---	---	-----	---	---	---
Soils on slopes greater than 15 percent-----	---	---	---	---	---	---	-----	---	---	---
Soils with sandy subsoil-----	---	---	---	---	---	---	-----	---	---	---
Typic Histoturbels---	---	---	---	---	---	---	-----	---	---	---
31: Typic Dystrocryepts--	---	Severe	Severe	Slight	Moderate	Moderate	-----	---	---	---
Tetlin-----	2R	Severe	Severe	Moderate	Moderate	Moderate	black spruce----- paper birch----- white spruce-----	71	2	---
Saulich-----	---	---	---	---	---	---	-----	---	---	---
Soils on slopes less than 15 percent-----	---	---	---	---	---	---	-----	---	---	---
Soils that are shallow to bedrock-----	---	---	---	---	---	---	-----	---	---	---

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		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
									m3/ha	
32:										
Typic Cryopsamments--	---	Slight	Moderate	Moderate	Severe	Moderate	-----	---	---	---
Typic Cryaquepts	---	Slight	Severe	Severe	Severe	Severe	-----	---	---	---
Bradway-----	---	---	---	---	---	---	-----	---	---	---
Loamy soils that are well drained-----	---	---	---	---	---	---	-----	---	---	---
Ponds-----	---	---	---	---	---	---	-----	---	---	---
Riverwash-----	---	---	---	---	---	---	-----	---	---	---
33:										
Zitziana-----	---	Moderate	Moderate	Slight	Moderate	Moderate	-----	---	---	---
Soils on slopes greater than 35 percent-----	---	---	---	---	---	---	-----	---	---	---
Soils with permafrost-----	---	---	---	---	---	---	-----	---	---	---

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		Erosion hazard	Equip- ment limita- tion	Seedling mortal- ity	Wind- throw hazard	Plant competi- tion	Common trees	Site index	Volume of wood fiber m3/ha	
34:										
Kindanina-----	---	Slight	Severe	Severe	Severe	Severe	-----	---	---	---
Zitziana-----	---	Moderate	Moderate	Slight	Moderate	Moderate	-----	---	---	---
Soils on slopes greater than 35 percent-----	---	---	---	---	---	---	-----	---	---	---
Typic Histoturbels---	---	---	---	---	---	---	-----	---	---	---
35:										
Water-----	---	---	---	---	---	---	-----	---	---	---